# Lesson Plan & Work-done Diary for AY: 2024-25, ODD Semester

| Course with Code:SOFTWARE ENGINEERING & PROJECT MANAGEMENT (BCS501) | | | | Faculty: | | Semester & Section:V 'A' | |
|---|---|---|---|---|---|---|---|
| **Class No** | **Date planned (DD/MM)** | **Topics to be covered** | **TLP Planned** | **Date of Conduction (DD/MM)** | **Topics Covered** | **TLP Executed** | **Remarks** |
| | | | **MODULE-1** | | | | |
| **1.** | | **Software and Software Engineering:** Software, The Nature of the software | PPT Chalk & Talk | | | | |
| **2.** | | The unique nature of WebApps, Software Engineering, | PPT Chalk & Talk | | | | |
| **3.** | | The software process, The software Engineering practice,The software myths, | PPT Chalk & Talk | | | | |
| **4.** | | Process Models: A generic process model,Process assessment and improvement, | PPT Chalk & Talk | | | | |
| **5.** | | Prescriptive process models:Waterfall model | PPT Chalk & Talk | | | | |
| **6.** | | Incremental process models, | PPT Chalk & Talk | | | | |
| **7.** | | Evolutionary process models, | PPT Chalk & Talk | | | | |
| **8.** | | Concurrent models, | PPT Chalk & Talk | | | | |
| **9.** | | Specialized process models. | PPT Chalk & Talk | | | | |
| **10.** | | Unified Process , Personal and Team process models | PPT Chalk & Talk | | | | |

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| **MODULE-2** | | | | | | | |
| **9.** | | **Understanding Requirements:** Requirements Engineering, Establishing the ground work, | PPT Chalk & Talk | | | | |
| **10.** | | Eliciting Requirements,Developing use cases, | PPT Chalk & Talk | | | | |
| **11.** | | Building the requirements model, Negotiating Requirements, | PPT Chalk & Talk | | | | |
| **12.** | | Validating Requirements | PPT Chalk & Talk | | | | |
| **13.** | | **Requirements Modeling Scenarios, Information and Analysis classes:** Requirement Analysis, | PPT Chalk & Talk | | | | |
| **14.** | | Scenario based modeling, | PPT Chalk & Talk | | | | |
| **15.** | | UML models that supplement the Use case, | PPT Chalk & Talk | | | | |
| **16.** | | Data modeling Concepts . | PPT Chalk & Talk | | | | |
| **17.** | | ClassBased Modeling | PPT Chalk & Talk | | | | |
| **18.** | | classBased Modeling cntd | PPT Chalk & Talk | | | | |
| **19.** | | Requirement Modeling Strategies : Flow oriented Modeling | PPT Chalk & Talk | | | | |
| **20.** | | Behavioral Modeling | PPT Chalk & Talk | | | | |

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| **MODULE-3** | | | | | | | |
| **21.** | | **AGILE DEVELOPMENT:** What is Agility?, Agility and the cost of change, agile process | PPT Chalk & Talk | | | | |
| **22.** | | Extreme Programming (XP), | PPT Chalk & Talk | | | | |
| **23.** | | Other Agile Process Models, | PPT Chalk & Talk | | | | |
| **24.** | | Other Agile Process Models,A tool set for Agile process | PPT Chalk & Talk | | | | |
| **25.** | | **Principles that guide practice:** Software Engineering Knowledge, | PPT Chalk & Talk | | | | |
| **26.** | | Core principles, | PPT Chalk & Talk | | | | |
| **27.** | | Principles that guide each framework activity | PPT Chalk & Talk | | | | |
| **28.** | | Principles that guide each framework activity cntd | PPT Chalk & Talk | | | | |

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| **MODULE-4** | | | | | | | |
| **29.** | | **Introduction to Project Management:** Introduction, Project and Importance of Project Management, | PPT Chalk & Talk | | | | |
| **30.** | | Contract Management, | PPT Chalk & Talk | | | | |
| **31.** | | Activities Covered by Software Project Management, Plans | PPT Chalk & Talk | | | | |
| **32.** | | Methods and Methodologies, Some ways of categorizing Software Projects, | PPT Chalk & Talk | | | | |
| **33.** | | Stakeholders, Setting Objectives, | PPT Chalk & Talk | | | | |
| **34.** | | Business Case, Project Success and Failure, | PPT Chalk & Talk | | | | |
| **35.** | | Management and ManagementControl, | PPT Chalk & Talk | | | | |
| **36.** | | Project Management life cycle, | PPT Chalk & Talk | | | | |
| **37.** | | Traditional versus Modern Project Management Practices. | PPT Chalk & Talk | | | | |
| **38.** | | **Project Evaluation**: Evaluation of Individual projects, | PPT Chalk & Talk | | | | |
| **39.** | | Cost–benefit Evaluation Techniques, | PPT Chalk & Talk | | | | |
| **40.** | | Risk Evaluation | PPT Chalk & Talk | | | | |

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| **MODULE-5** | | | | | | | |
| **41.** | | **Software Quality:** Introduction, The place of software quality in project planning | PPT Chalk & Talk | | | | |
| **42.** | | Importance of software quality | PPT Chalk & Talk | | | | |
| **43.** | | Defining software quality, | PPT Chalk & Talk | | | | |
| **44.** | | quality models, ISO 9126, | PPT Chalk & Talk | | | | |
| **45.** | | product and process metrics, , | PPT Chalk & Talk | | | | |
| **46.** | | product versus process quality management | PPT Chalk & Talk | | | | |
| **47.** | | Quality Management systems,process capability models, | PPT Chalk & Talk | | | | |
| **48.** | | Software Project Estimation: Observations on Estimation, | PPT Chalk & Talk | | | | |
| **49.** | | Decomposition Techniques, Empirical Estimation Models. | PPT Chalk & Talk | | | | |
| **50.** | | Revision | PPT Chalk & Talk | | | | |

| | Activity | Planned | Actual | Remarks |
|---|---|---|---|---|
| **1** | Theory Classes | 50 | | |
| **2** | Assignments/<br>Quizzes/ Self-study | 2 Assignment (group activity)<br>2 Quiz | | |
| **3** | Tutorials/ Extra classes | - | | |
| **4** | Internal Assessments | 3 | | |
| **5** | ICT based Teaching<br>(% of usage in Curriculum) | 100% | | |
| **Planning** | | | **Execution** | |
| **Faculty Signature:** | | | **Faculty Signature:** | |
| **HoD Signature:** | | | **HoD Signature:** | |